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RAW SEQUENCE LISTING

DATE: 02/10/2002

PATENT APPLICATION: US/09/920,068A

TIME: 13:06:11

Input Set : A:\50125.015002.SEQLIST.TXT

Output Set: N:\CRF3\02102002\I920068A.raw

P.5

ENTERED

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4 <110> APPLICANT: Wolf, Eckhard
5      Werner, Sabine
6      Halle, Jorn-Peter
7      Regenbogen, Johannes
8      Goppelt, Andreas
10 <120> TITLE OF INVENTION: Polypeptides or Nucleic Acids Encoding
11      These of a Family of G-Protein Coupled Receptors and their
12      Use for the Diagnosis or Treatment of Disorders, for example
13      Skin Disorders and their Use for the Identification of
14      Pharmacologically Active Substances
17 <130> FILE REFERENCE: 50125/015002
19 <140> CURRENT APPLICATION NUMBER: 09/920,068A
20 <141> CURRENT FILING DATE: 2001-08-01
22 <150> PRIOR APPLICATION NUMBER: 60/229,501
23 <151> PRIOR FILING DATE: 2000-08-31
25 <150> PRIOR APPLICATION NUMBER: DE 10038111.1
26 <151> PRIOR FILING DATE: 2000-08-04
28 <160> NUMBER OF SEQ ID NOS: 21
30 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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33 <211> LENGTH: 331
34 <212> TYPE: PRT
35 <213> ORGANISM: Mus musculus
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40 Ser Pro Thr Ala Pro Val Thr Thr Asn Pro Met Asp Glu Thr Leu Pro
41      20      25      30
42 Gly Ser Ile Asn Ile Arg Ile Leu Ile Pro Lys Leu Met Ile Ile Ile
43      35      40      45
44 Phe Gly Leu Val Gly Leu Met Gly Asn Ala Ile Val Phe Trp Leu Leu
45      50      55      60
46 Gly Phe His Leu Arg Arg Asn Ala Phe Ser Val Tyr Ile Leu Asn Leu
47 65      70      75      80
48 Ala Leu Ala Asp Phe Leu Phe Leu Leu Ser Ser Ile Ile Ala Ser Thr
49      85      90      95
50 Leu Phe Leu Leu Lys Val Ser Tyr Leu Ser Ile Ile Phe His Leu Cys
51      100     105     110
52 Phe Asn Thr Ile Met Met Val Val Tyr Ile Thr Gly Ile Ser Met Leu
53      115     120     125
54 Ser Ala Ile Ser Thr Glu Cys Cys Leu Ser Val Leu Cys Pro Thr Trp
55      130     135     140
56 Tyr Arg Cys His Arg Pro Val His Thr Ser Thr Val Met Cys Ala Val

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57 145          150          155          160
58 Ile Trp Val Leu Ser Leu Leu Ile Cys Ile Leu Asn Ser Tyr Phe Cys
59          165          170          175
60 Ala Val Leu His Thr Arg Tyr Asp Asn Asp Asn Glu Cys Leu Ala Thr
61          180          185          190
62 Asn Ile Phe Thr Ala Ser Tyr Met Ile Phe Leu Leu Val Val Leu Cys
63          195          200          205
64 Leu Ser Ser Leu Ala Leu Leu Ala Arg Leu Phe Cys Gly Ala Gly Gln
65          210          215          220
66 Met Lys Leu Thr Arg Phe His Val Thr Ile Leu Leu Thr Leu Leu Val
67 225          230          235          240
68 Phe Leu Leu Cys Gly Leu Pro Phe Val Ile Tyr Cys Ile Leu Leu Phe
69          245          250          255
70 Lys Ile Lys Asp Asp Phe His Val Leu Asp Val Asn Leu Tyr Leu Ala
71          260          265          270
72 Leu Glu Val Leu Thr Ala Ile Asn Ser Cys Ala Asn Pro Ile Ile Tyr
73          275          280          285
74 Phe Phe Val Gly Ser Phe Arg His Gln Leu Lys His Gln Thr Leu Lys
75          290          295          300
76 Met Val Leu Gln Ser Ala Leu Gln Asp Thr Pro Glu Thr Ala Glu Asn
77 305          310          315          320
78 Met Val Glu Met Ser Ser Asn Lys Ala Glu Pro
79          325          330
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83 <211> LENGTH: 321
84 <212> TYPE: PRT
85 <213> ORGANISM: Homo sapiens
87 <400> SEQUENCE: 2
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90 Tyr Ser Arg Gly Ser Thr Val His Thr Ala Tyr Leu Val Leu Ser Ser
91          20          25          30
92 Leu Ala Met Phe Thr Cys Leu Cys Gly Met Ala Gly Asn Ser Met Val
93          35          40          45
94 Ile Trp Leu Leu Gly Phe Arg Met His Arg Asn Pro Phe Cys Ile Tyr
95          50          55          60
96 Ile Leu Asn Leu Ala Ala Ala Asp Leu Leu Phe Leu Phe Ser Met Ala
97 65          70          75          80
98 Ser Thr Leu Ser Leu Glu Thr Gln Pro Leu Val Asn Thr Thr Asp Lys
99          85          90          95
100 Val His Glu Leu Met Lys Arg Leu Met Tyr Phe Ala Tyr Thr Val Gly
101          100          105          110
102 Leu Ser Leu Leu Thr Ala Ile Ser Thr Gln Arg Cys Leu Ser Val Leu
103          115          120          125
104 Phe Pro Ile Trp Phe Lys Cys His Arg Pro Arg His Leu Ser Ala Trp
105          130          135          140
106 Val Cys Gly Leu Leu Trp Thr Leu Cys Leu Leu Met Asn Gly Leu Thr
107 145          150          155          160
108 Ser Ser Phe Cys Ser Lys Phe Leu Lys Phe Asn Glu Asp Arg Cys Phe

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109          165          170          175
110 Arg Val Asp Met Val Gln Ala Ala Leu Ile Met Gly Val Leu Thr Pro
111          180          185          190
112 Val Met Thr Leu Ser Ser Leu Thr Leu Phe Val Trp Val Arg Arg Ser
113          195          200          205
114 Ser Gln Gln Trp Arg Arg Gln Pro Thr Arg Leu Phe Val Val Val Leu
115          210          215          220
116 Ala Ser Val Leu Val Phe Leu Ile Cys Ser Leu Pro Leu Ser Ile Tyr
117 225          230          235          240
118 Trp Phe Val Leu Tyr Trp Leu Ser Leu Pro Pro Glu Met Gln Val Leu
119          245          250          255
120 Cys Phe Ser Leu Ser Arg Leu Ser Ser Ser Val Ser Ser Ser Ala Asn
121          260          265          270
122 Pro Val Ile Tyr Phe Leu Val Gly Ser Arg Arg Ser His Arg Leu Pro
123          275          280          285
124 Thr Arg Ser Leu Gly Thr Val Leu Gln Gln Ala Leu Arg Glu Glu Pro
125          290          295          300
126 Glu Leu Glu Gly Gly Glu Thr Pro Thr Val Gly Thr Asn Glu Met Gly
127 305          310          315          320
128 Ala
132 <210> SEQ ID NO: 3
133 <211> LENGTH: 325
134 <212> TYPE: PRT
135 <213> ORGANISM: Mus musculus
137 <400> SEQUENCE: 3
138 Met Asp Ile Asp Ile Ser Ser Leu Gly Ile Tyr Ile Ile Ala Pro Asn
139 1          5          10          15
140 Gly Ser Ser Tyr Thr Asn Ser Val Asp Cys Phe Phe Lys Ile Gln Val
141          20          25          30
142 Met Gly Phe Leu Ser Leu Ile Ile Ser Pro Val Gly Met Val Leu Asn
143          35          40          45
144 Ser Thr Val Leu Trp Phe Leu Gly Phe Gln Ile Arg Arg Asn Ala Phe
145          50          55          60
146 Ser Val Tyr Ile Leu Asn Leu Ala Gly Ala Asp Phe Leu Phe Leu His
147 65          70          75          80
148 Ser Gln Phe Leu Phe Tyr Leu Leu Ala Ile Phe Pro Ser Ile Pro Ile
149          85          90          95
150 Gln Ile Pro Leu Phe Phe Asp Met Leu Thr Lys Phe Ala Tyr Leu Ser
151          100          105          110
152 Gly Leu Ser Ile Leu Ser Thr Ile Ser Ile Glu Arg Cys Leu Cys Val
153          115          120          125
154 Met Trp Pro Ile Trp Tyr Arg Cys Gln Arg Pro Arg His Thr Ser Ser
155          130          135          140
156 Val Thr Cys Ser Leu Leu Trp Ala Leu Ser Leu Leu Phe Ala Leu Leu
157 145          150          155          160
158 Asp Gly Met Gly Cys Gly Leu Leu Phe Asn Ser Phe Asp Gln Ser Trp
159          165          170          175
160 Cys Leu Lys Phe Asp Leu Ile Ile Cys Ala Trp Ser Ile Val Leu Phe
161          180          185          190

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Input Set : A:\50125.015002.SEQLIST.TXT

Output Set: N:\CRF3\02102002\I920068A.raw

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162 Val Val Leu Cys Gly Ser Ser Leu Ile Leu Leu Val Arg Ile Phe Cys
163          195          200          205
164 Gly Ser Gln Gln Ile Pro Val Thr Arg Leu Tyr Val Thr Ile Ala Leu
165      210          215          220
166 Thr Val Leu Phe Phe Leu Ile Cys Cys Leu Pro Phe Gly Ile Ser Trp
167 225          230          235          240
168 Ile Ile Gln Trp Ser Glu Thr Leu Ile Tyr Val Gly Phe Cys Asp Tyr
169          245          250          255
170 Phe His Glu Glu Leu Phe Leu Ser Cys Ile Asn Ser Cys Ala Asn Pro
171          260          265          270
172 Ile Ile Tyr Phe Leu Val Gly Phe Ile Arg Gln Arg Lys Phe Gln Gln
173          275          280          285
174 Lys Ser Leu Lys Val Leu Leu Gln Arg Ala Met Glu Asp Thr Pro Glu
175      290          295          300
176 Glu Glu Asn Glu Asp Met Gly Pro Ser Arg Asn Pro Glu Glu Phe Glu
177 305          310          315          320
178 Thr Val Cys Ser Asn
179          325
182 <210> SEQ ID NO: 4
183 <211> LENGTH: 330
184 <212> TYPE: PRT
185 <213> ORGANISM: Homo sapiens
187 <400> SEQUENCE: 4
188 Met Asp Pro Thr Thr Pro Ala Trp Gly Thr Glu Ser Thr Thr Val Asn
189 1          5          10          15
190 Gly Asn Asp Gln Ala Leu Leu Leu Leu Cys Gly Lys Glu Thr Leu Ile
191      20          25          30
192 Pro Val Phe Leu Ile Leu Phe Ile Ala Leu Val Gly Leu Val Gly Asn
193      35          40          45
194 Gly Phe Val Leu Trp Leu Leu Gly Phe Arg Met Arg Arg Asn Ala Phe
195      50          55          60
196 Ser Val Tyr Val Leu Ser Leu Ala Gly Ala Asp Phe Leu Phe Leu Cys
197 65          70          75          80
198 Phe Gln Ile Ile Asn Cys Leu Val Tyr Leu Ser Asn Phe Phe Cys Ser
199      85          90          95
200 Ile Ser Ile Asn Phe Pro Ser Phe Phe Thr Thr Val Met Thr Cys Ala
201      100          105          110
202 Tyr Leu Ala Gly Leu Ser Met Leu Ser Thr Val Ser Thr Glu Arg Cys
203      115          120          125
204 Leu Ser Val Leu Trp Pro Ile Trp Tyr Arg Cys Arg Arg Pro Arg His
205      130          135          140
206 Leu Ser Ala Val Val Cys Val Leu Leu Trp Ala Leu Ser Leu Leu Leu
207 145          150          155          160
208 Ser Ile Leu Glu Gly Lys Phe Cys Gly Phe Leu Phe Ser Asp Gly Asp
209          165          170          175
210 Ser Gly Trp Cys Gln Thr Phe Asp Phe Ile Thr Ala Ala Trp Leu Ile
211      180          185          190
212 Phe Leu Phe Met Val Leu Cys Gly Ser Ser Leu Ala Leu Leu Val Arg
213      195          200          205

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Input Set : A:\50125.015002.SEQLIST.TXT

Output Set: N:\CRF3\02102002\I920068A.raw

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214 Ile Leu Cys Gly Ser Arg Gly Leu Pro Leu Thr Arg Leu Tyr Leu Thr
215      210      215      220
216 Ile Leu Leu Thr Val Leu Val Phe Leu Leu Cys Gly Leu Pro Phe Gly
217 225      230      235      240
218 Ile Gln Trp Phe Leu Ile Leu Trp Ile Trp Lys Asp Ser Asp Val Leu
219      245      250      255
220 Phe Cys His Ile His Pro Val Ser Val Val Leu Ser Ser Leu Asn Ser
221      260      265      270
222 Ser Ala Asn Pro Ile Ile Tyr Phe Phe Val Gly Ser Phe Arg Lys Gln
223      275      280      285
224 Trp Arg Leu Gln Gln Pro Ile Leu Lys Leu Ala Leu Gln Arg Ala Leu
225      290      295      300
226 Gln Asp Ile Ala Glu Val Asp His Ser Glu Gly Cys Phe Arg Gln Gly
227 305      310      315      320
228 Thr Pro Glu Met Ser Arg Ser Ser Leu Val
229      325      330
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233 <211> LENGTH: 993
234 <212> TYPE: DNA
235 <213> ORGANISM: Mus musculus
237 <400> SEQUENCE: 5
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239 ccagtgcaca caaatccaat ggacgaaacc ctccctggaa gtatcaacat taggattctg 120
240 atcccaaaat tgatgatcat catcttcgga ctggctcggac tgatgggaaa cgccattgtg 180
241 ttctggctcc tgggcttcca cttgcgcagg aatgccttct cagtctacat cctaaacttg 240
242 gccctggctg acttcctttt cctcctcagt agtatcatag cttccaccct gtttcttctc 300
243 aaagtttcct acctcagcat catctttcac ttgtgcttta acaccattat gatggttgtc 360
244 tacatcacag ggataagcat gtcagtgcc atcagcactg agtgctgcct gtctgtcctg 420
245 tgccccacct ggtatcgctg ccaccgtcca gtacatacat caactgtcat gtgtgctgtg 480
246 atctgggtcc tatccctgtt gatctgcatt ctgaatagct atttctgtgc tgccttacat 540
247 accagatatg ataatagaca tgagtgtctg gcaactaaca tctttaccgc ctctgacatg 600
248 atatttttgc ttgtggtcct ctgtctgtcc agcctggctc tgctggccag gttgttctgt 660
249 ggcgtcgggc agatgaagct taccagattt catgtgacca tcttgctgac ccttttggtt 720
250 tttctcctct gcgggttgcc ctttgcctac tactgcctcc tgttattcaa gattaaggat 780
251 gatttccatg tattagatgt taatctttat ctagcattag aagtcctgac tgctattaac 840
252 agctgtgcca accccatcat ctactcttct gtgggctctt tcagacatca gttgaagcac 900
253 cagaccctca aaatggttct ccagagtgcg ctgcaggaca ctctgagac agctgaaaac 960
254 atggttagaga tgtcaagtaa caaagcagag cct 993
256 <210> SEQ ID NO: 6
257 <211> LENGTH: 966
258 <212> TYPE: DNA
259 <213> ORGANISM: Homo sapiens
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263 agcacagtgc acacggccta cctgggtgct agctccctgg ccatgttcac ctgcctgtgc 120
264 gggatggcag gcaacagcat ggtgatctgg ctgctgggct ttogaatgca caggaacccc 180
265 ttctgcatct atatcctcaa cctggcggca gccgacctcc tcttctctct cagcatggct 240
266 tccacgctca gcttggaac ccagccctg gtcaatacca ctgacaaggc ccacgagctg 300
267 atgaagagac tgatgtactt tgctacaca gtgggctga gcctgctgac ggccatcagc 360

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Use of n and/or Xaa has been detected in the Sequence Listing.
 Review the Sequence Listing to insure a corresponding
 explanation is presented in the <220> to <223> fields of
 each sequence using n or Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/920,068A

DATE: 02/10/2002

TIME: 13:06:12

Input Set : A:\50125.015002.SEQLIST.TXT

Output Set: N:\CRF3\02102002\I920068A.raw

L:409 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:410 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:412 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15